

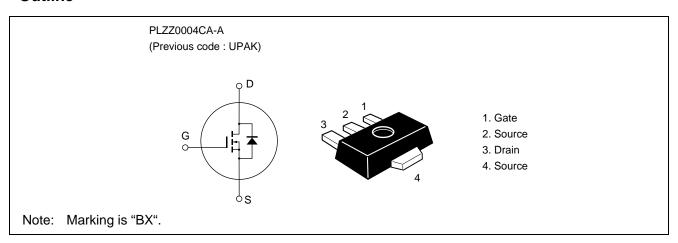
Silicon N-Channel MOS FET UHF Power Amplifier

REJ03G0207-0300 (Previous ADE-208-1367(Z)) Rev.3.00 Feb.14.2005

Features

- High power output, High gain, High efficiency PG = 12.2 dB, Pout = 30.2 dBm, $\eta D = 45\% \text{min}$. (f = 836.5 MHz)
- Compact package capable of surface mounting

Outline



This Device is sensitive to Electro Static Discharge. An Adequate handling procedure is requested.

Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

Item	Symbol	Ratings	Unit
Drain to source voltage	V_{DSS}	17	V
Gate to source voltage	V _{GSS}	±10	V
Drain current	I _D	0.4	A
Drain peak current	I _{D(pulse)} Note1	1	A
Channel dissipation	Pch Note2	3	W
Channel temperature	Tch	150	°C
Storage temperature	Tstg	-45 to +150	°C

Notes: 1. PW \leq 10 μ s, duty cycle \leq 1%

2. Value at Tc = 25°C

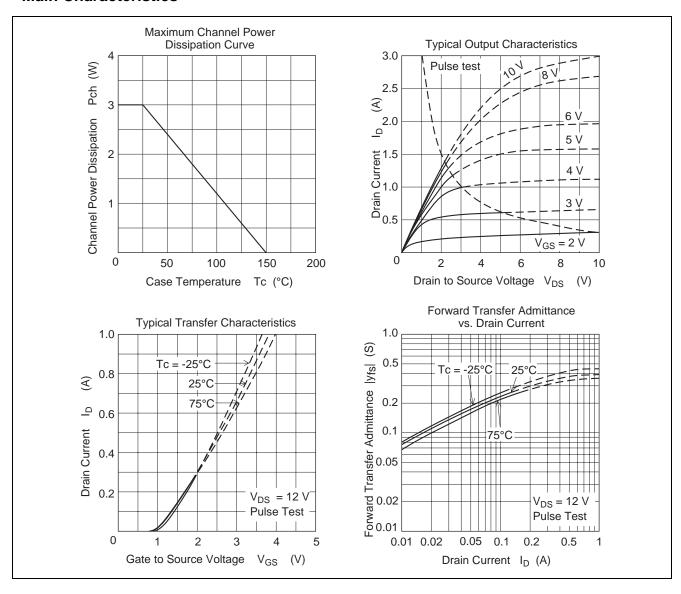
Electrical Characteristics

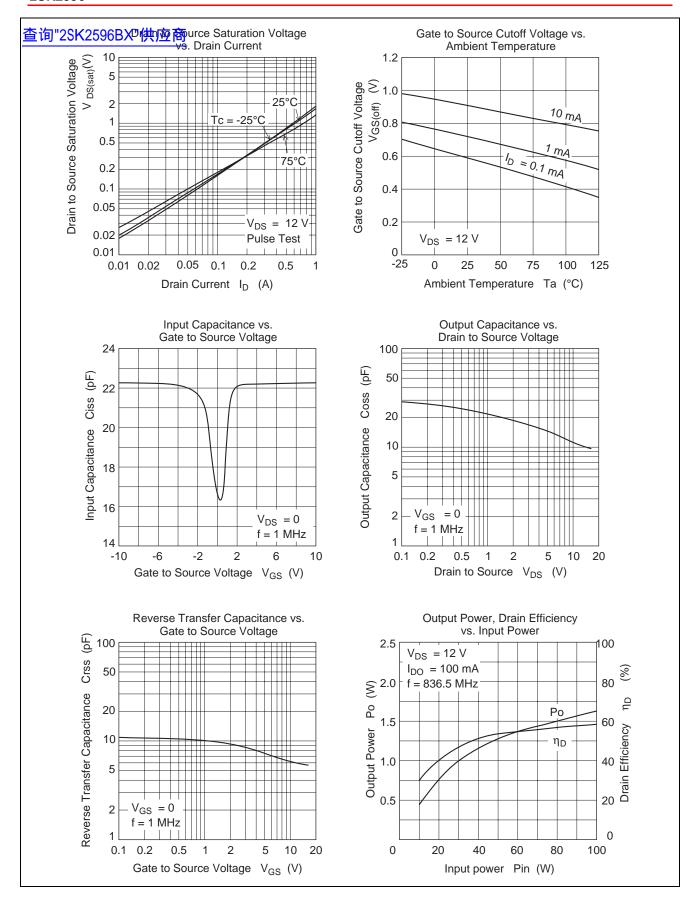
查询"2SK2596BX"供应商

 $(Ta = 25^{\circ}C)$

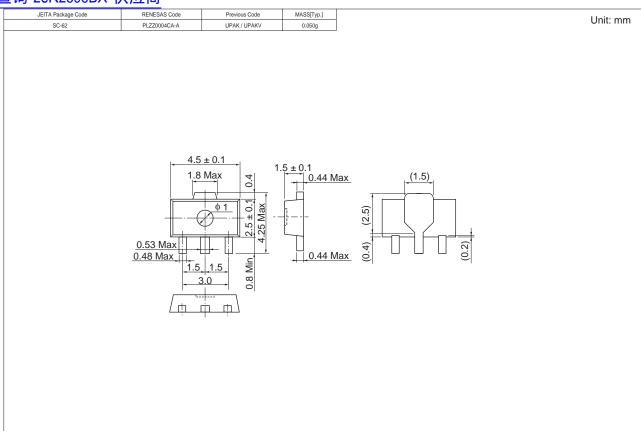
Item	Symbol	Min.	Тур	Max.	Unit	Test Conditions
Zero gate voltage drain current	I _{DSS}	_	_	10	μΑ	$V_{DS} = 12 \text{ V}, V_{GS} = 0$
Gate to source leak current	I_{GSS}	_	_	±5.0	μΑ	$V_{GS} = \pm 10 \text{ V}, V_{DS} = 0$
Gate to source cutoff voltage	$V_{GS(off)}$	0.4	_	1.1	V	$I_D = 2 \text{ mA}, V_{DS} = 12 \text{ V}$
Input capacitance	Ciss	_	22	_	pF	$V_{GS} = 5 \text{ V}, V_{DS} = 0, f = 1 \text{ MHz}$
Output capacitance	Coss	_	10.5	_	pF	$V_{DS} = 12 \text{ V}, V_{GS} = 0, f = 1 \text{ MHz}$
Output Power	Pout	30.2	31.46	_	dBm	V _{DS} = 12 V, f = 836.5 MHz
						Pin = 18 dBm
Drain Efficiency	ηD	45	55	_	%	V _{DS} = 12 V, Pout = 30.2 dBm
						f = 836.5 MHz, Pin = 18 dBm

Main Characteristics





查和kage Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SK2596BX	1000	φ178 taping

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